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S. I. Matorin

July 2001 **Cybernetics and Systems Analysis**, Volume 37 Issue 4

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A formal concept of system as a functional object is proposed. A new method of systemological analysis of complex dynamic systems, conforming to requirements of object-oriented design and based on a formal semantic normative system with an adaptive alphabet, is considered. The base class hierarchy is presented for construction of conceptual models during the process of object-oriented analysis and design.

Keywords: complex dynamic systems, conceptual models, object-oriented design, systemological analysis

2 [IS '97: model curriculum and guidelines for undergraduate degree programs in information systems](#)

Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E. Longenecker

December 1997 **ACM SIGMIS Database , Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems**, Volume 28 Issue 1

Full text available: pdf(7.24 MB)

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3 [Evolution of Business System Analysis Techniques](#)

J. Daniel Couger

September 1973 **ACM Computing Surveys (CSUR)**, Volume 5 Issue 3

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James R. Ziegler

August 1965 **Proceedings of the 1965 20th national conference**



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Larry Marine

September 2002 **interactions**, Volume 9 Issue 5

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How many times have we been asked to evaluate a client's Web site or software application for usability? All the design guidelines and standards we have at hand, all the usability tests we conduct, do not ensure that the client will accept our verdict or our recommendations. Larry Marine describes four rules that he has developed to improve the user-centered design methodology and tells us how he uses them to increase the objectivity of his evaluations and make the bad news more easily accepted ...

2 [Posters: Time conscious objects™: a domain-specific framework and generator](#)

Jorn Bettin, Jeff Hoare

October 2003 **Companion of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**

Full text available: pdf(171.81 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In most business software systems the time dimension of business objects plays a significant role. Time is a crosscutting concern that is hard to separate from other business logic. We have developed a toolkit that allows existing business application systems to be extended with "time-conscious" behavior in a non-intrusive way by factoring out all aspects of time-related behavior into a framework and a set of classes that is distinct from the existing code base. The Time Conscious Objects™ (TCO ...

Keywords: auditability, domain-driven development, domain-specific languages, logging, model driven architecture (MDA), redo, temporal, time, undo, versioning

3 [Technical reports](#)

SIGACT News Staff

January 1980 **ACM SIGACT News**, Volume 12 Issue 1

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4 [A case for test-code generation in model-driven systems](#)

Matthew J. Rutherford, Alexander L. Wolf

September 2003 **Proceedings of the second international conference on Generative programming and component engineering**